



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Amend Traffic Resolution to Adopt County-Proposed 45-Mile-Per-Hour Speed Limit on Guild Avenue North of Victor Road

MEETING DATE: October 21, 1998

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council adopt the attached resolution amending Traffic Resolution #97-148, by approving the extension of the County's 45-mile-per-hour (mph) speed limit on Guild Avenue, from Victor Road to approximately 700 feet north of Victor Road, as shown on the attached Engineering and Traffic Survey.

BACKGROUND INFORMATION: Recently, San Joaquin County Public Works Department contacted the City to review the speed limit on the segment of Guild Avenue north of Victor Road. The length of this segment of Guild Avenue is approximately 2,650 feet long, with the south 700 feet under the City's jurisdiction. Both jurisdictions have been working together to determine a posted speed limit for the entire segment.

DISCUSSION/RECOMMENDATION: Since the 700-foot segment of Guild Avenue under the City's jurisdiction was too short to obtain accurate speed measurements, it was determined that the City would adopt the County-proposed limit. Based on this, on October 6 the San Joaquin County Board of Supervisors introduced an ordinance to approve a 45-mph speed limit on the portion of Guild Avenue north of our City limits, which is a reduction from the existing prima facie speed limit of 55 mph. This speed limit was approved following the public hearing held on October 13.

Staff recommends that City Council approve the 45-mph speed limit on the 700-foot portion of Guild Avenue under our jurisdiction. Signs and pavement legends needed to display the speed limit in the City limits will be performed by San Joaquin County forces under an Encroachment Permit.

FUNDING: None.

Richard C. Prima, Jr.
Public Works Director

Prepared by Rick S. Kiriou, Senior Engineering Technician
RCP/RSK/lm

Attachments

cc: City Attorney
Police Chief
Street Superintendent
Associate Traffic Engineer
Senior Engineering Technician - Development Services
San Joaquin County Traffic Engineer Chahal
Concerned Citizen

APPROVED: _____

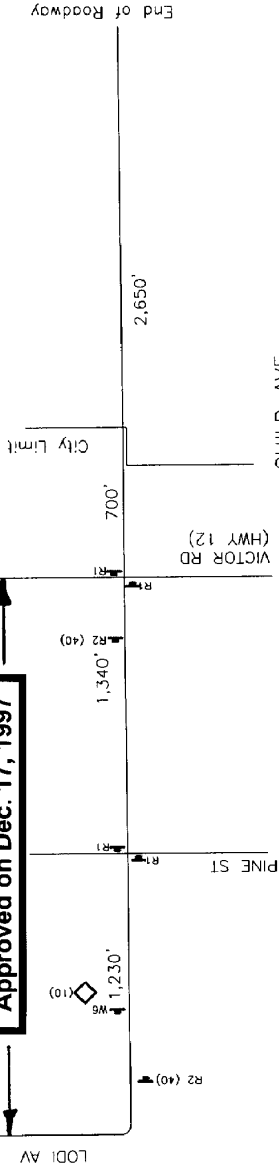
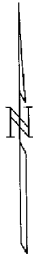
H. Dixon Flynn -- City Manager

ENGINEERING

AND TRAFFIC SURVEY

SEE NARRATIVE FOR
BACKGROUND INFORMATION

**Posted Speed Limit
Approved on Dec. 17, 1997**

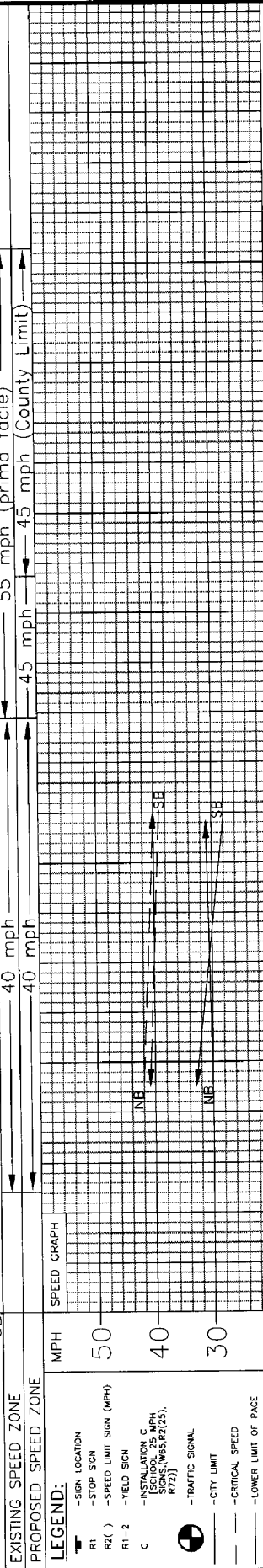


GUILD AVE.

1/2 MILE

1/2 MILE

| SPEED TABLE | |
|-------------------------------|------------|
| ROADWAY WIDTH | 64' |
| NO. OF LANES | 2 |
| MEDIAN (TYPE) | NONE |
| TRAFFIC SIGNAL DATA | N/A |
| AVERAGE DAILY TRAFFIC | 1,200 |
| OBS. SPEED—CRITICAL, 85th% NB | 42 |
| SB | 41 |
| —PACE(%) NB | 30-40 (71) |
| SB | 33-43 (74) |
| —MEDIAN, 50th% NB | 36 |
| SB | 37 |
| EXISTING SPEED ZONE | 40 mph |
| PROPOSED SPEED ZONE | 40 mph |
| MPH | 50 |
| MPH | 40 |
| MPH | 30 |



| | | |
|-----------------------------------|----------|----------|
| ACCIDENT PLOT | YR: 1995 | YR: 1996 |
| ACCIDENT RATE—ACC./MILL. VEH.—MI. | 0.0 | 4.9 |

| | | | |
|--------------|----------------|--------------------------|---------------|
| DR: TJ | DATE: 12/21/98 | APPROVED BY: [Signature] | DATE: [Blank] |
| CHK: [Blank] | REVISION: 1 | CITY ENGINEER: [Blank] | DATE: [Blank] |
| CITY OF LODI | | PUBLIC WORKS DEPARTMENT | |
| GUILD AVE | | SPEED ZONE SURVEY | |

SPEED ZONE REPORT - Guild Avenue

- **REFERENCE**

Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802 (b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.

- **STUDY**

Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are prevailing speeds, unexpected conditions to drivers, and accident records.

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first 5-mile-per-hour (mph) increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment may indicate the need for a further reduction of 5 mph.

Two radar surveys were performed and the 85th percentile speeds ranged from 39 to 42 mph as shown below:

| <u>Guild Avenue Segment</u> | <u>Northbound</u> | <u>Southbound</u> |
|---|-------------------|-------------------|
| Lodi Avenue to Pine Street | 42 mph | 41 mph |
| Pine Street to Victor Road | 40 mph | 39 mph |
| Victor Road to 700 feet North of Victor Road | N/A | N/A |

Unexpected Conditions

When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

Accidents

Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents-per-million-vehicle-miles (ACC/MVM). The accident rates are 0.0 and 4.9 ACC/MVM. The average Citywide accident rate is 4.4 ACC/MVM.

SPEED ZONE REPORT - Guild Avenue

Page 2

- **CONCLUSION**

Lodi Avenue to Pine Street

The 85th percentile speeds on this segment are 41 and 42 mph. The 50th percentile speeds are 36 to 37 mph. The accident rate of 0.0 in this segment is below the Citywide average and has not changed from the 1993 survey. Based on the prevailing speeds and the continuing low accident rate, we recommend retaining the 40-mph speed limit along this segment.

Pine Street to Victor Road

The 85th percentile speeds on this segment are 39 and 40 mph. The 50th percentile speeds are 34 to 36 mph. The accident rate of 4.9 in this segment is slightly above the Citywide average and higher than the 0.0 rate from the 1993 survey. Although the accident rate has increased, it is not high in relation to the Citywide average. Based on the prevailing speeds and reasonable accident rate, we recommend retaining the 40-mph speed limit along this segment.

Victor Road to 700 Feet North of Victor Road

The south 700 feet of this 2,650-foot segment of Guild Avenue is under the City's jurisdiction, with the remaining portion to the north under San Joaquin County's. The County recently performed an Engineering and Traffic Survey on its portion resulting in a 45-mph speed limit. As the portion under the City's jurisdiction is too short to perform a separate Engineering and Traffic Survey, staff recommends adopting the County's 45-mph speed limit on this segment. The current prima facie speed limit is 55 mph.

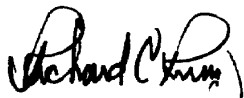
The recommended speed limit is shown below:

GUILD AVENUE SEGMENT

Lodi Avenue to Pine Street
Pine Street to Victor Road
Victor Road to 700 Feet North of Victor Road

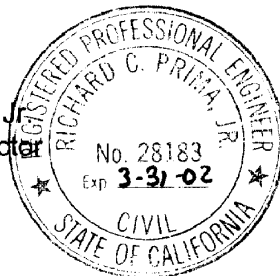
RECOMMENDED

40 mph (no change)
40 mph (no change)
55 to 45 mph



Richard C. Prima, Jr.
Public Works Director

RCP/RSK/lm



RESOLUTION NO. 97-157

A RESOLUTION OF THE LODI CITY COUNCIL
APPROVING SPEED LIMIT MODIFICATION ON GUILD
AVENUE NORTH OF VICTOR ROAD, AND THEREBY
AMENDING TRAFFIC RESOLUTION NO. 97-148

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WHEREAS, the County of San Joaquin has contacted the City to review the speed limit on the segment of Guild Avenue north of Victor Road; and

WHEREAS, the length of this segment of Guild Avenue is approximately 2,650 feet long, with the south 700 feet under the City's jurisdiction; and

WHEREAS, since the 700-foot segment of Guild Avenue under the City's jurisdiction was too short to obtain accurate speed measurements, it was determined that the City would adopt the County-proposed limit; and

WHEREAS, on October 6, 1998, the San Joaquin County Board of Supervisors introduced an ordinance to approve a 45-mph speed limit on the portion of Guild Avenue north of our City limits, which is a reduction from the existing prima facie speed limit of 55 mph, and was approved following the public hearing held on October 13, 1998; and

WHEREAS, staff recommends that the City Council approve the 45-mph speed limit on the 700-foot portion of Guild Avenue under City jurisdiction.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Lodi does hereby approve the 45-mph speed limit on Guild Avenue, from Victor Road to approximately 700 feet north of Victor Road, as shown on the attached Engineering and Traffic Survey; and

BE IT FURTHER RESOLVED, that City of Lodi Traffic Resolution No. 97-148, Section 7 "Speed Limits" is hereby amended by designating a speed limit modification on Guild Avenue, from Victor Road to approximately 700 feet north of Victor Road, from a prima facie speed limit of 55 miles per hour to 45 miles per hour.

Dated: October 21, 1998

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I hereby certify that Resolution No. 98-157 was passed and adopted by the City Council of the City of Lodi in a regular meeting held October 21, 1998, by the following vote:

AYES: COUNCIL MEMBERS – Johnson, Land, Mann, Pennino and Sieglock
(Mayor)

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

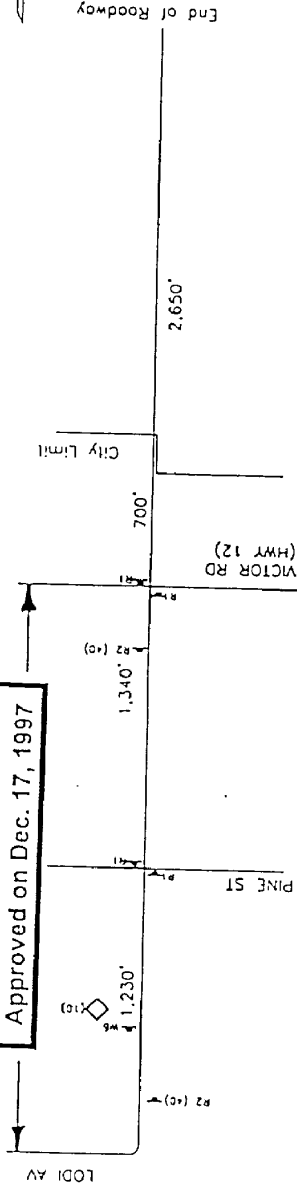
ABSTAIN: COUNCIL MEMBERS – None


ALICE M. REIMCHE
City Clerk

ENGINEERING AND TRAFFIC SURVEY

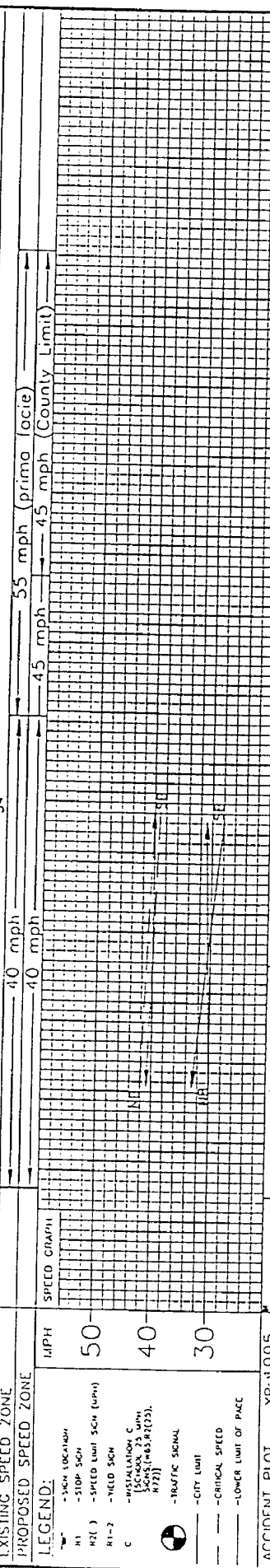
SEE NARRATIVE FOR
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Posted Speed Limit
Approved on Dec. 17, 1997



GUILD AVE.

| SPEED TABLE | | 1/2 MILE | 1/2 MILE |
|------------------------------|----------------------|------------|-----------------------|
| ROADWAY WIDTH | 64' | 64' | 64' |
| NO. OF LANES | 2 | 2 | 2 |
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| TRAFFIC SIGNAL DATA | N/A | N/A | N/A |
| AVERAGE DAILY TRAFFIC | 1,200 | 2,200 | 2,200 |
| OBS. SPEED—CRITICAL 85th% NB | 42 | 40 | 40 |
| SB | 41 | 39 | 39 |
| —PACE(%) | 30-40 (71) | 31-41 (74) | 31-41 (74) |
| SB | 33-43 (74) | 28-38 (70) | 28-38 (70) |
| —MEDIAN 50th% NB | 36 | 36 | 36 |
| SB | 37 | 34 | 34 |
| EXISTING SPEED ZONE | 40 mph | 40 mph | 40 mph |
| PROPOSED SPEED ZONE | 40 mph | 40 mph | 40 mph |
| LEGEND: | 55 mph (prima locie) | 45 mph | 45 mph (County Limit) |



| | | | |
|-----------------------------------|---------------|---------------|---------------|
| ACCIDENT PLOT | YR: 1995 | YR: 1996 | YR: 1997 |
| ACCIDENT RATE—ACC./MILL. VEH.—MI. | 0.0 | 4.9 | 0.0 |
| Revised | Revised | Revised | Revised |
| City Engineer | City Engineer | City Engineer | City Engineer |
| Approved By | Approved By | Approved By | Approved By |
| DATE | DATE | DATE | DATE |
| DATE | DATE | DATE | DATE |

CITY OF LODI
PUBLIC WORKS DEPARTMENT



GUILD AVE

SPEED
ZONE
SURVEY

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- CONCLUSION

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Public Works Director

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